NC/QC/YD/2020-21/W1-KB-C1

Date: 08-02-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	156 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.98 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.04mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.95 N/Sq mm	Shall not be less than 27 N/Sqmm

A.E.E

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Down Bazar Rd From Panchamukhi Anjanaya Temple

Page No. 1/1,

NEWZEN CONSULTANT Bangalore

NC/QC/YD/2020-21/W1-KB-PCC1

Date: 08-02-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	64.15	0 -20	30- 70
10mm	32.70	0 -5	10- 35
4.75mm	4.05	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.70	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	81.25	60-95	75-100	85-100	
01.18	73.05	30-70	55-90	75-100	
600 mic	46.90	15-34	35-59	60-79	
300 mic	22.15	5-20	8-30	12-40	
150 mic	6.80	0-10	0-10	0-10	

AE-1 A.E.E

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Timmarayappa Rd

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EMAIL:newzen576@gmail.com

NC/QC/YD/2020-21/W1-KB-PCC2

Date: 11-02-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.70	0 -20	30- 70
10mm	29.45	0 -5	10- 35
4.75mm	3.95	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	82.15	60-95	75-100	85-100	
01.18	74.60	30-70	55-90	75-100	
600 mic	43.10	15-34	35-59	60-79	
300 mic	24.55	5-20	8-30	12-40	
150 mic	7.15	0-10	0-10	0-10	

A.E.E

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : : Down Bazar , Cross Rd 01

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NC/QC/YD/2020-21/W1-KB-FA1

Date: 16-02-2021

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: Sri.Ramesh Y.B.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	96.55	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	83.45	60-95	75-100	85-100	
01.18	71.25	30-70	55-90	75-100	
600. mic	46.85	15.34	35-59	60-79	
300 mic	23.65	5-20	8-30	12-40	
150 mic	7.40	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	17.64 %	-----
2	Silt Content	----	0.59%	Not more than 8%
3	Specific Gravity	----	2.61	-------

A.E.E

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : Jayaram House Rd

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NC/QC/YD/2020-21/W1-KB-CB1

Date: 01-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
	001	22-02-21	01-03-21	07	22500	370	16.44	
	002	"	"	"	"	380	16.89	16.67
	003	"	"	"	"	375	16.67	

A.E.E

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Timmarayappa Rd

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NC/QC/YD/2020-21/W1-KB-CB5

Date: 12-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.. Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	05-03-21	12-03-21	07	22500	365	16.22	16.15
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	355	15.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Jayaram House Rd

A.E.E

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NEWZEN CONSULTANT BANGALORE

NC/QC/YD/2020-21/W1-KB-4A

Date: 31-03-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	03-03-21	31-03-21	28	22500	520	23.11	22.74
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Down Bazar , Cross Rd 02

A.E.E

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EMAIL:newzen576@gmail.com

NC/QC/YD/2020-21/W1-KB-K2

Date: 08-04-2021

TEST REPORT

Sub: Testing of Pre-cast Material-Kerb Stones.
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

1. PHYSICAL TESTS ON KERB STONES :

Sl No.	Identification	Flexural strength, fcr in N/sqmm	Characteristic Compressive Strength, fck in N/sqmm	Avg. Characteristic. Compressive Strength fck in N/sqmm	Remarks
1	001	3.34	22.90	23.15	As per Cl. 6.2.2 of IS 456-2000, fcr=0.7√ fck
2	002	3.39	23.45		
3	003	3.36	23.10		

2. WATER ABSORPTION TEST

Sl No	Identification	Water absorption %	Average value %
1	001	4.59	4.65
2	002	4.72	
3	003	4.65	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Down Bazar Rd From Amulya Biriyani Corner (RHS)

A.E.E

A.E

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NC/QC/YD/2020-21/W1-KB-C4

Date: 12-04-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	161 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.96 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.03 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.75 N/Sq mm	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Jayaram House Rd

A.E.E

Page No. 1/1,

NEWZEN CONSULTANT Bangalore

NC/QC/YD/2020-21/W1-KB-CR5

Date: 28-04-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-04-21	28-04-21	07	22500	545	24.22	23.85
	002	"	"	"	"	530	23.56	
	003	"	"	"	"	535	23.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Hoovadigara Beedi

NE-1
A.E.E

Page No. 1/1,

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NC/QC/YD/2020-21/W1-KB-CR3A

Date: 17-05-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	19-04-21	17-05-21	28	22500	730	32.44	32.37
	002	"	"	"	"	740	32.89	
	003	"	"	"	"	715	31.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Down Bazar , Cross Rd 02

A.E.E

Page No. 1/1,

NEWZEN CONSULTANT BANGALORE

NC/QC/YD/2020-21/W1-KB-CR5A

Date: 19-05-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Improvements of Roads and Drains at Kalli Bhavi Road and Surrounding Areas in Ward no-1 of Yelahanka sub Division.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri.Ramesh Y.B.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{30}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-04-21	19-05-21	28	22500	740	32.89	32.44
	002	"	"	"	"	730	32.44	
	003	"	"	"	"	720	32.00	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Chandraprasanna House Rd

A.E.E

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